



## NOTES

Toenail with 2-16d (25 gram)

-16 mm ø Button head bolt

with hex nut (See Note 14)

~150 mm x 200 mm x 360 mm

Galv nails in top of block

-See Note I5

wood block

150 mm x 200 mm

wood post (see Note 3)

-200

Post spacing 1905 mm C-C

SECTION A-A

TYPICAL WOOD LINE

POST INSTALLATION

See Note 4

R=24 mm

-2.8 mm Nominal

-Cut steel washer

- I. For details of steel post and wood block installations, see Standard Plan A7744.
- 2. For details of standard hardware used to construct guard railing, see Standard Plan A77B.
- 3. For details of wood posts and wood blocks used to construct guard railing, see Standard Plan A77C.
- 4. For additional installation details, see Standard Plan A77FA.
- 5. Guard railing post spacing to be 1905 mm center to center, except as otherwise noted.
- For guard railing typical layouts, see Standard Plans A77D and A77E.
- 7. For embankment widening details to accommodate guard railing terminal system end treatments, see Standard Plan A77F.
- 8. For typical terminal system end treatments, see Standard Plans A77L, A77M and A77N. For type of terminal system to be used, see Project Plans.
- 9. For guard railing terminal anchor details, see Standard Plans A77G, A77I and A77IA.
- 10. For guard railing connection details to bridge railing. retaining walls and abutments, see Standard Plan A77J.
- II. For guard railing connection details to bridge sidewalks and curbs, see Standard Plan A77K.
- 12. For dike positioning with guard railing installations, see Standard Plan A77F.
- Direction of traffic indicated by ----.
- 14. Where conditions require the bolt to be installed in the opposite direction from that shown in Section A-A or where a 16 mm threaded rod is required in place of the bolt, no more than 13 mm of thread to be exposed on the traffic side of the rail element.
- 15. Additional holes in wood post are required for potential adjustments of railing height. See Standard Plan A77C.
- 16. For guard railing delineation details, see Standard Plan A77F.

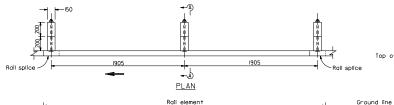
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

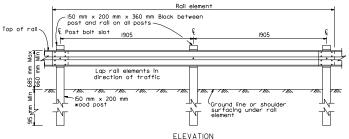
## METAL BEAM GUARD RAILING TYPICAL WOOD POST WITH WOOD BLOCK

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN







METAL BEAM GUARD RAILING WITH WOOD POST AND BLOCKS

2 mm Tolerance R=24 mm Symmetrical about ¢

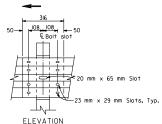
Top of post-

or shoulder

under railing -

surfacing.

SECTION THRU RAIL ELEMENT



RAIL ELEMENT SPLICE DETAIL

16 mm ø x 35 mm button head oval shoulder bolts inserted into the 23 mm x 29 mm slots and bolted together with 16 mm ø x 35 mm recessed hex nuts. A total of 8 bolts and nuts are to be used at each rail splice connection. The ends of the rail elements are to be overlapped in the direction of traffic (see details). Where a terminal section or end section is to be attached to the end of a rail element, a total of 4 of the above described splice bolts and nuts are to be used.